## In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown. Please cancel claims 9, 10, 18, 19 and 39 without prejudice.

- 1. (Cancelled)
- 2. (Previously Presented) A method for generating a large payload file from non-contiguous segments of block files comprising:

receiving a request at a network node for a portion of a large payload file;
obtaining information about assembling said portion of said large payload file by
including information indicating whether said large payload is linear, wherein said
large payload file is linear if substantive content of said large payload file is located at
a starting end of said large payload file;
obtaining a plurality of block files of said large payload file from a plurality of
storage devices associated with said network node;
creating a virtual representation of said portion of said large payload file from
said plurality of block files using said assembling information; and
transmitting said portion of said large payload file in response to said request.

3. (Original) The method of claim 2, wherein said creating said virtual representation of said portion of said large payload file from said plurality of block files comprises:

creating a virtual assembly of said plurality of block files as said representation if said large payload file is linear.

4. (Original) The method of claim 2, wherein said creating said virtual representation of said portion of said large payload file from said plurality of block files comprises:

assembling said plurality of block files into a plurality of virtual track files if said large payload file is not linear; and multiplexing said plurality of virtual track files to create said representation.

- 5. (Previously Presented) The method of claim 2, wherein said request is from an application servicing a client request.
- 6. (Original) The method of claim 5, wherein said application comprises a streaming server.
- 7. (Original) The method of claim 5. wherein said application comprises an FTP host.
- 8. (Original) The method of claim 5, wherein said application comprises a media player.
- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Original) The method of claim 3, wherein said creating a virtual assembly of said plurality of block files comprises linear superposition of representations of said plurality of block files according to said assembling information.

- 12. (Original) The method of claim 4, wherein said assembling said plurality of block files comprises linear superposition of representations of said plurality of block files according to said assembling information.
- 13. (Currently Amended) A method for generating a large payload file from noncontiguous segments of block files comprising:

receiving a request at a network node for a portion of a large payload file, said request having an offset into said large payload file and a length of said portion of said large payload file;

obtaining information about assembling said portion of said large payload file by including information indicating whether said large payload is linear, wherein said large payload file is linear if substantive content of said large payload file is located at a starting end of said large payload file;

obtaining a plurality of block files of said large payload file from a plurality of storage devices associated with said network node;

creating a virtual representation of said portion of said large payload file from said plurality of block files using said assembling information; and transmitting said portion of said large payload file in response to said request.

- 14. (Previously Presented) The method of claim 13, wherein said plurality of block files comprises a first subset of block files resident at said node at receipt of said request and a second subset of block files not resident at said node at receipt of said request, wherein both subsets represent the entire large payload file.
- 15. (Original) The method of claim 14, further comprising:

obtaining said second subset of block files from one or more nodes of said network.

- 16. (Previously Presented) The method of claim 13, wherein said representation comprises a virtual representation of said large payload file.
- 17. (Currently Amended) The method of claim 13, wherein said transmitting said large payload file commences when said <u>a</u> first subset of block files resident in said node is adequate to start satisfying said request.
- 18. (Cancelled)
- 19. (Cancelled)
- 20. (Previously Presented) A method for satisfying a client request for content with portions of said content distributed amongst a plurality of network nodes comprising:

receiving a first request at a first node from a client for content, wherein said first node comprises one of a plurality of nodes of a network, said first node having a portion of said content, wherein said content is distributed in subsets of block files amongst one or more of said plurality of nodes;

preparing a virtual image of said content using data in a file metadata of said content available in said first node, said file metadata having information about reassembling said file, said virtual image providing an illusion to said client that said content is fully available at said first node;

beginning transmission of said content to said client starting from said portion of said content available at said first node; and

obtaining non-resident portions of said content while said transmission is progressing, said obtaining non-resident portions comprising:

sending a second request to determine nodes in said plurality of nodes that have said non-resident portions of said content, wherein one or more of said plurality of nodes may have same portion of said content;

receiving a response from each responding node having said content.
said response specifying the portion of said content and performance
characteristics of said responding node; and

determining from said response which of said responding nodes are a desired set of nodes to download said non-resident portions of said content from; and downloading said non-resident portions of said content from said desired set of nodes and storing said non-resident portions onto said requesting node.

## 21. (Cancelled)

22. (Previously Presented) A computer program product comprising:

a computer usable medium comprising computer readable code for generating
a large payload file from non-contiguous segments of block files, said computer
readable program code configured to:

receive a request at a network node for content of a large payload file;
obtain information about assembling said large payload file by including information

indicating whether said large payload is linear, wherein said large payload file is Docket No. 42P16031

linear if substantive content of said large payload file is located at a starting end of said large payload file.

obtain a plurality of block files of said large payload file from a plurality of storage devices of said node;

create a virtual representation of said large payload file from said plurality of block files using said assembling information; and

transmit said large payload file in response to said request.

23. (Original) The computer program product of claim 22, wherein said create said virtual representation of said large payload file from said plurality of block files comprises:

create a virtual assembly of said plurality of block fifes as said representation if said large payload file is linear.

24. (Original) The computer program product of claim 22, wherein said create said virtual representation of said large payload file from said plurality of block files comprises:

assembling said plurality of block files into a plurality of virtual track files if said large payload file is not linear; and multiplexing said plurality of virtual track files to create said

representation.

25. (Previously Presented) The computer program product of claim 22 21, wherein said request is from an application servicing a client request.

- 26. (Original) The computer program product of claim 25, wherein said application is a streaming server.
- 27. (Original) The computer program product of claim 25, wherein said application is an FTP host.
- 28. (Original) The computer program product of claim 25, wherein said application comprises a media player.
- 29. (Previously Presented) The computer program product of claim 22, wherein said assembling information is contained in a file metadata database stored in said plurality of storage devices of said node.
- 30. ((Previously Presented) The computer program product of claim 22, wherein said block files are stored in non-contiguous form in said plurality of storage devices.
- 31. (Original) The computer program product of claim 23, wherein said create said virtual assembly of said plurality of block files comprises linear superposition of representations of said plurality of block files according to said assembling information.
- 32. (Original) The computer program product of claim 24, wherein said assembling said plurality of block files comprises linear superposition of representations of said plurality of block files according to said assembling information.

- 33. (Original) The computer program product of claim 24, wherein said request comprises an offset into said large payload file and a length of said portion of said large payload fife.
- 34. (Previously Presented) The computer program product of claim 22, wherein said plurality of block files comprises a first subset of block files resident at said node at receipt of said request and a second subset of block files not resident at said node at receipt of said request, wherein both subsets represent the entire large payload file.
- 35. (Original) The computer program product of claim 34, further comprising computer readable program code configured to:

obtain said second subset of block files from one or more nodes of said network.

- 36. (Previously Presented) The computer program product of claim 22, wherein said representation is a virtual representation of said large payload file.
- 37. (Previously Presented) The computer program product of claim 22 21, wherein said transmit said large payload file commences as soon as said first subset of block files resident in said node is adequate to start satisfying said request.
- 38. (Cancelled)
- 39. (Cancelled)

40. (Currently Amended) The apparatus of claim <u>47</u> 39, wherein said creating said virtual representation of said large payload file from said plurality of block files comprises:

creating a virtual assembly of said plurality of block files as said representation if said large payload file is linear.

41. (Currently Amended) The apparatus of claim <u>47</u> <del>39</del>, wherein said creating said virtual representation of said large payload file from said plurality of block files comprises:

assembling said plurality of block files into a plurality of virtual track files if said large payload file is not linear; and

multiplexing said plurality of virtual track files to create said representation.

- 42. (Previously Presented) The apparatus of claim 47, wherein said request is from an application servicing a client request.
- 43. (Original) The apparatus of claim 42, wherein said application is a streaming server.
- 44. (Original) The apparatus of claim 42, wherein said application is an FTP host.
- 45. (Original) The apparatus of claim 42, wherein said application comprises a media player.
- 46. (Previously Presented) The apparatus of claim 47 wherein said assembling information is contained in a file metadata database stored in said plurality of storage devices of said node.

47. (Currently Amended) An apparatus for generating a large payload file from non-contiguous segments of block files comprising:

a network with a plurality of nodes;

a plurality of storage devices in each of said plurality of nodes to store a plurality of block files in non-contiguous form; and

a first server in a first server cluster of a node of said network receiving a request for content of a large payload file, said first server cluster having one or more first servers, said first server obtaining information about assembling said large payload file by including information indicating whether said large payload is linear, wherein said large payload file is linear if substantive content of said large payload file is located at a starting end of said large payload file, said first server obtaining said plurality of block files of said large payload file from said plurality of storage devices of said node, said first server creating a virtual representation of said large payload file from said plurality of block files using said assembling information, and transmitting said large payload file in response to said request.

- 48. (Original) The apparatus of claim 40, wherein said creating a virtual assembly of said plurality of block files comprises linear superposition of representations of said plurality of block files according to said assembling information.
- 49. (Original) The apparatus of claim 41, wherein said assembling said plurality of block files comprises linear superposition of representations of said plurality of block files according to said assembling information.

- 50. (Original) The apparatus of claim 41, wherein said request comprises an offset into said large payload file and a length of said portion of said large payload file.
- 51. (Previously Presented) The apparatus of claim 47, wherein said plurality of block files comprises a first subset of block files resident at said node at receipt of said request and a second subset of block files not resident at said node at receipt of said request. wherein both subsets represent the entire large payload file.
- 52. (Original) The apparatus of claim 51, further comprising:

  one or more second servers in a second server cluster, and said first
  server sending a second request to a second server of said one or more second
  servers to obtain said second subset of block files from other nodes of said
  network.
- 53. (Previously Presented) The apparatus of claim 47, wherein said representation is a virtual representation of said large payload file.
- 54. (Currently Amended) The apparatus of claim 47, wherein said transmitting said large payload file commences as soon as <u>a said</u> first subset of block files resident in said node is adequate to start satisfying said request.